BALANCED CLIENT/SERVER MECHANISM IN A TIME-PARTITIONED REAL-TIME OPERATING SYSTEM

Abstract Of The Disclosure

A method is provided for transferring CPU budget and CPU control between a client thread and a server thread in a client/server pair. A CPU budget is assigned to the client thread, and the client thread begins executing at a scheduled time within a first period. CPU control and any unused CPU budget is transferred, within the first period, to the server thread when the client thread stops executing at which point the server thread begins executing, still within the first period. CPU control and any unused CPU budget are transferred, within the first period, to the client thread when the server thread stops executing.